

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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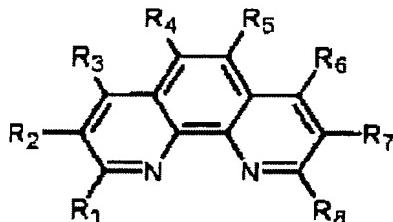
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APPLICANT : TORAY IND INC;

INVENTOR : KOHAMA TORU;

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TITLE : LIGHT EMISSION ELEMENT



(1)

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a light emission element which has high luminescence efficiency and is excellent in color purity with high luminosity.

SOLUTION: In a light emission element which has a luminescence substance existing between a positive pole and a negative pole, and emits light by electric energy, the element is the light emission element containing the organic fluorescent substance which has phenanthroline skeleton expressed with a formula (1). In the formula, R<sub>1</sub>-R<sub>8</sub> which can be same with, or different from one another, are chosen from following substances; hydrogen, alkyl group, cycloalkyl group, aralkyl group, alkenyl group, cycloalkenyl group, alkynil group, hydroxyl group, mercapto group, alkoxy group, alkyl-thio group, aryether group, arylthioether group, aryl group, heterocyclic group, halogen, haloalkane, haloalkene, haloalkine, cyano group, aldehyde group, carbonyl group, carboxyl group, ester group, carbamoyl group, amino group, nitro group, silyl group, and siroxanyl group.

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